

Replacement Sheet

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FIGURE 1A

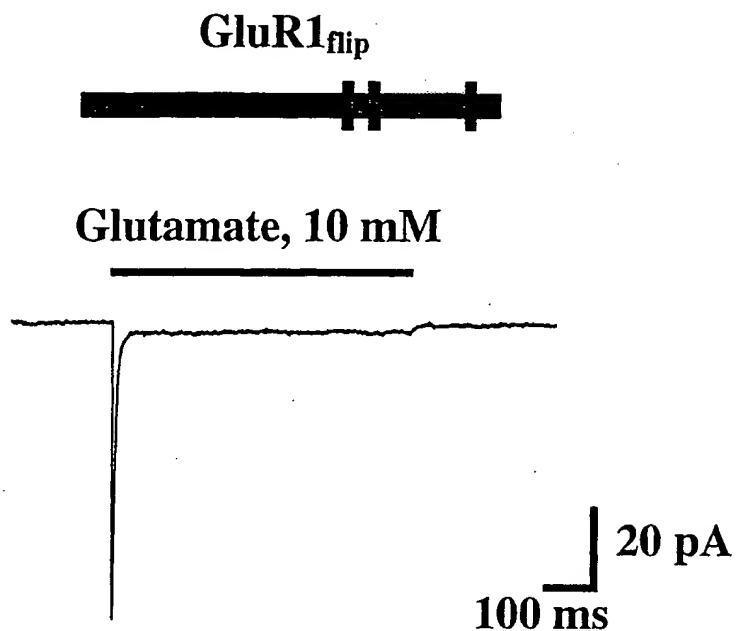
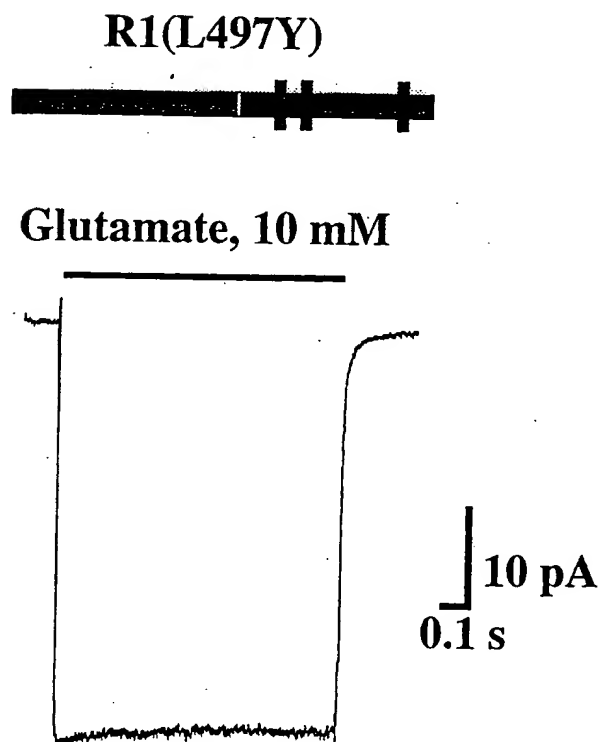


FIGURE 1B



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R1(L497Y)

Glutamate [ $\mu$ M]

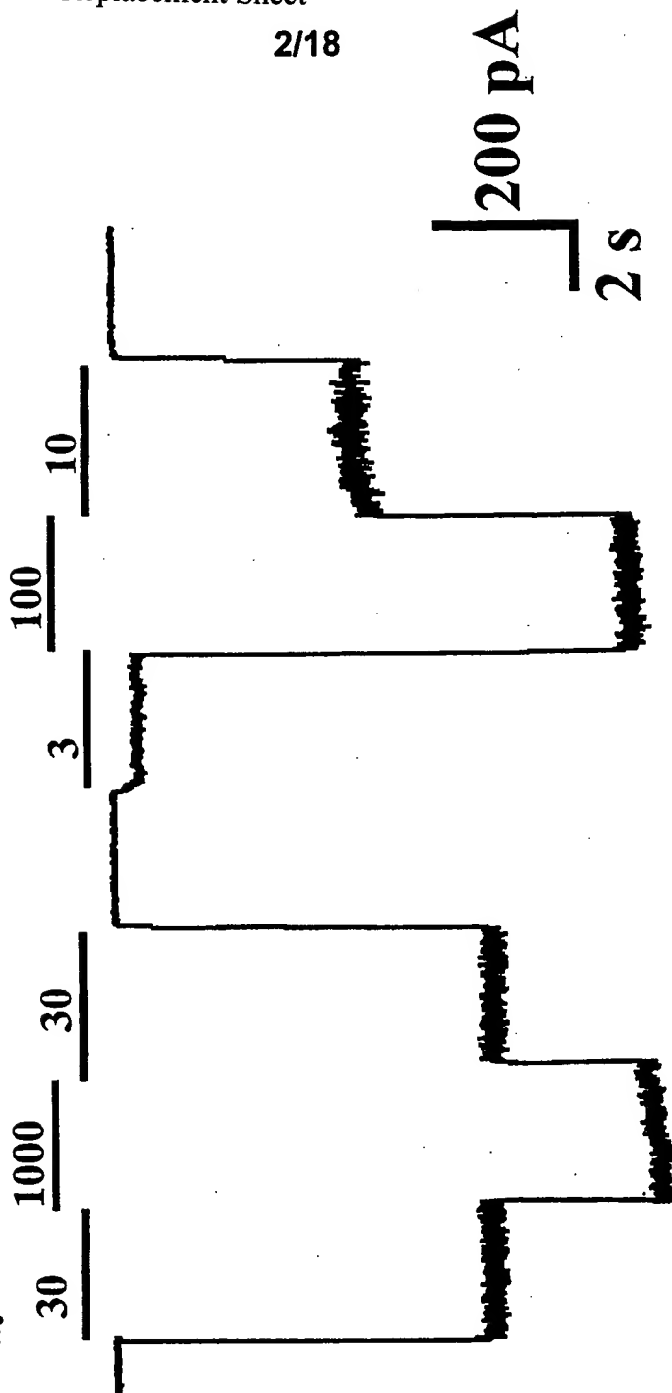


FIGURE 1C



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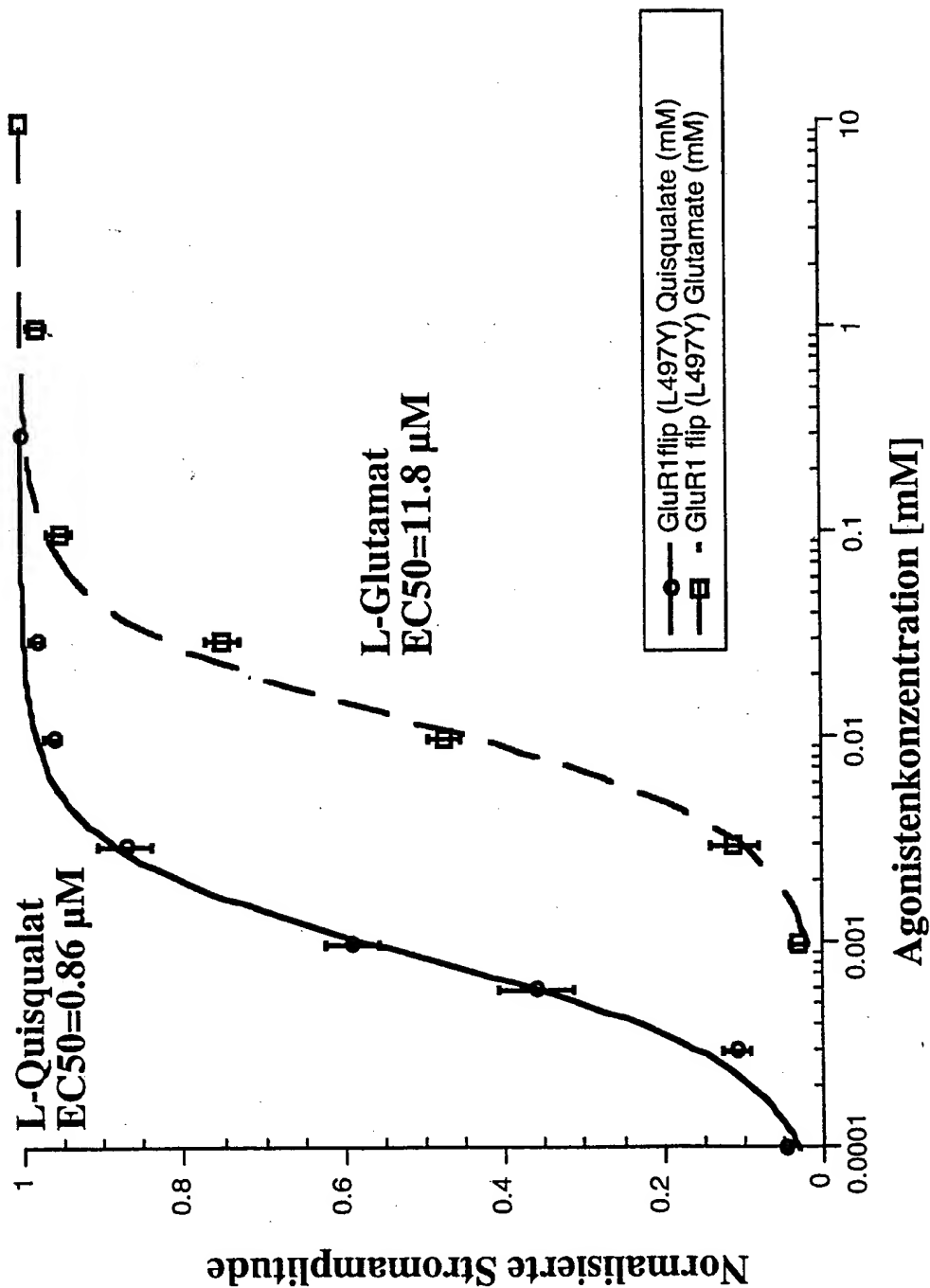


FIGURE 1D

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FIGURE 2A

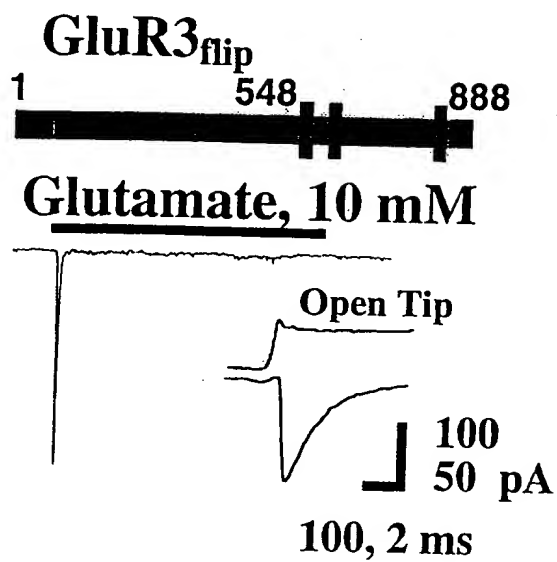


FIGURE 2B

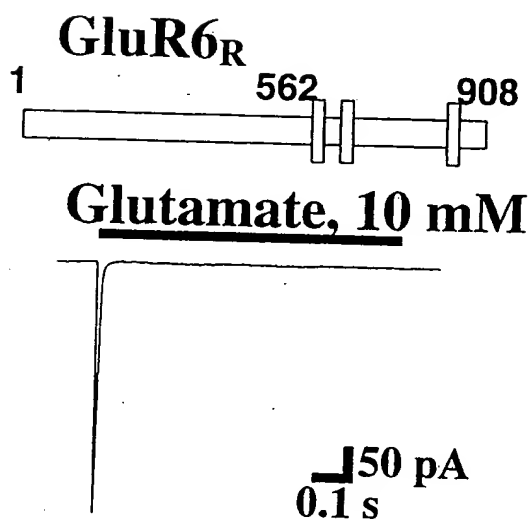




FIGURE 2C

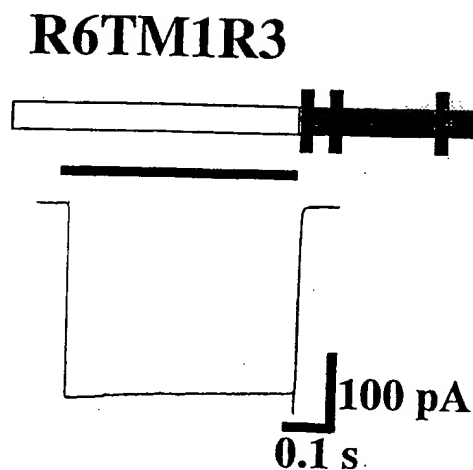
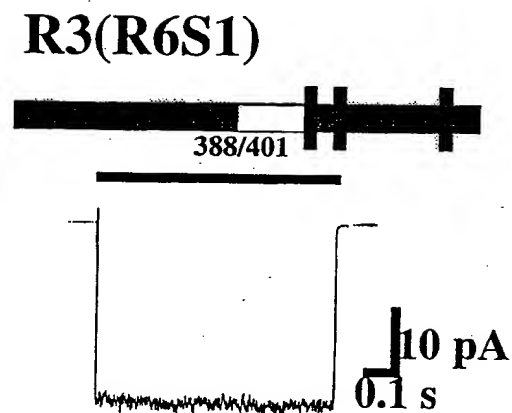


FIGURE 2D





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FIGURE 2E

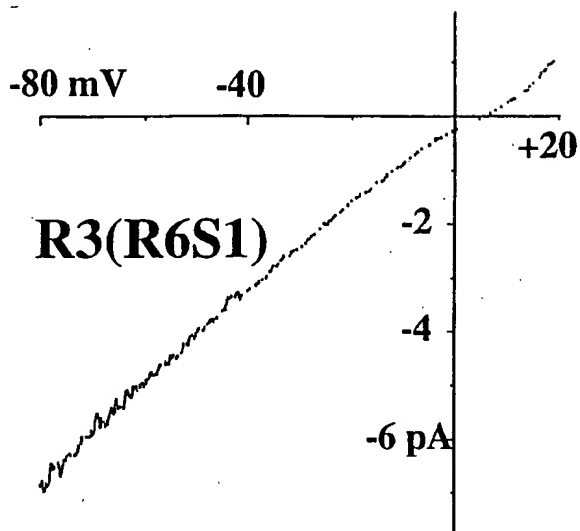
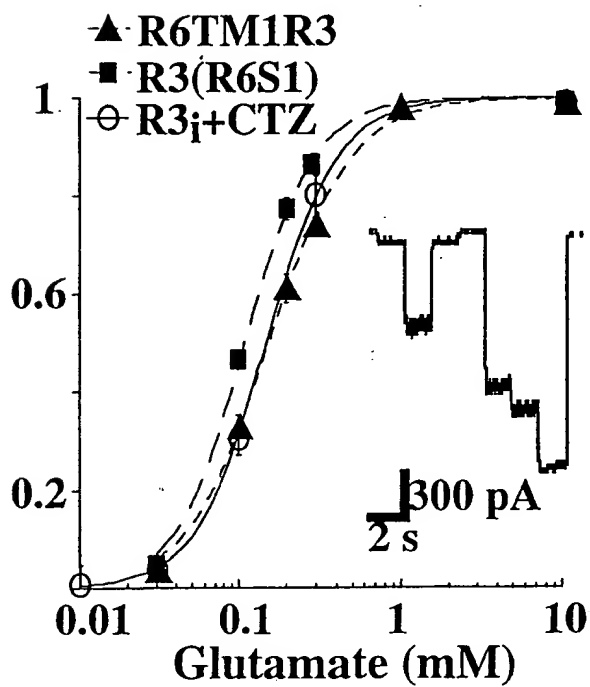


FIGURE 2F





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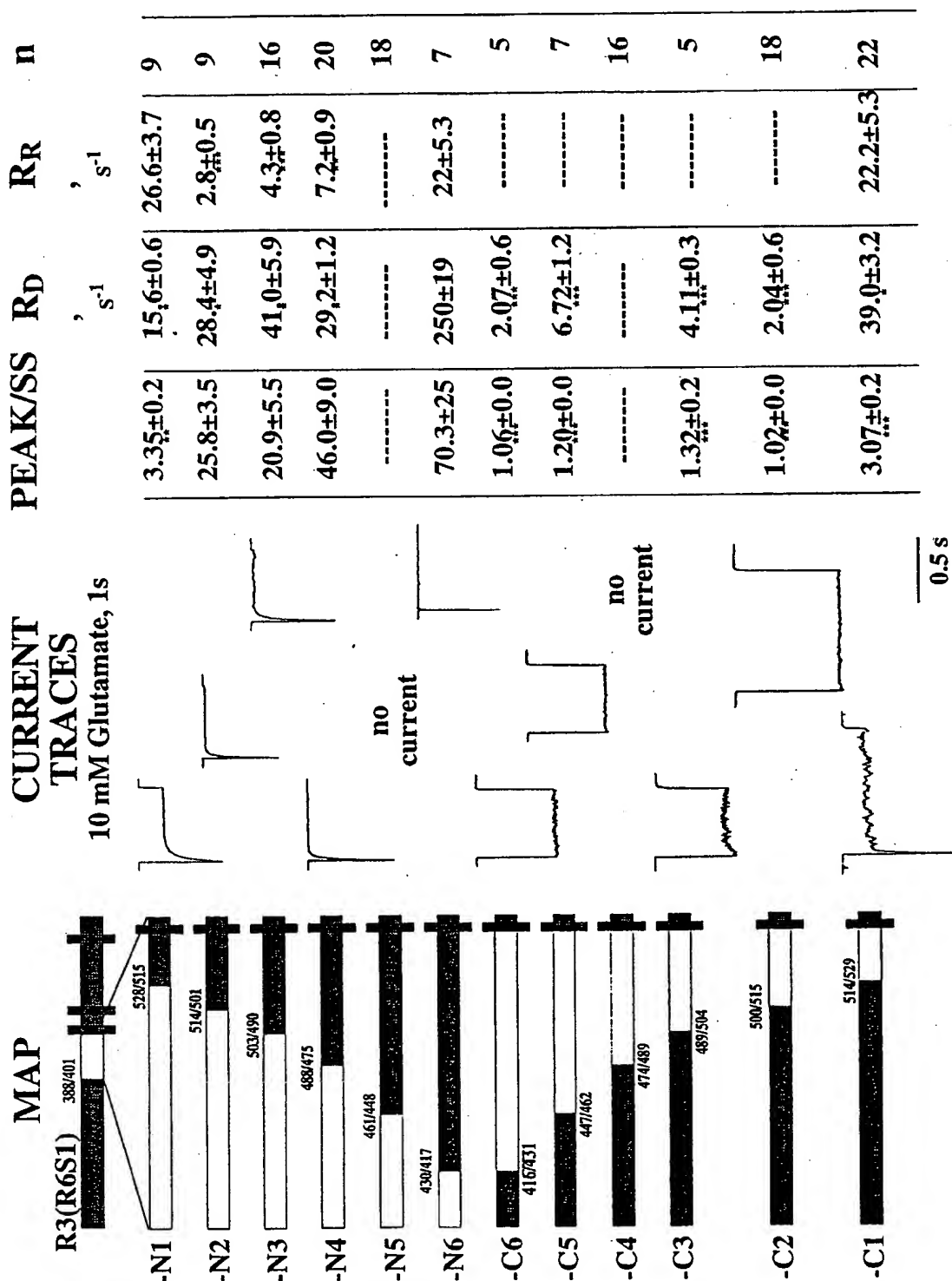


FIGURE 3A

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PEAK/SS	R <sub>D</sub> , s <sup>-1</sup>	R <sub>R</sub> , s <sup>-1</sup>	n
57.6±16	190±12	32.6±3.2	11
155±49	383±50	42.0±6.8	14
13.5±4.1	99.2±6.1	19.2±6.3	15
20.3±4.2	189±17	45.3±8.2	11
90.4±33	124±15	27.3±2.5	10

CURRENT  
TRACES  
10 mM Glutamate, 1s

R3(R6S1C1) --T-----LYR--NGTN-----N--SPD

R3 515-FMSLGISTMIKKPKQKSKPGVFSFLDPLAVE-548

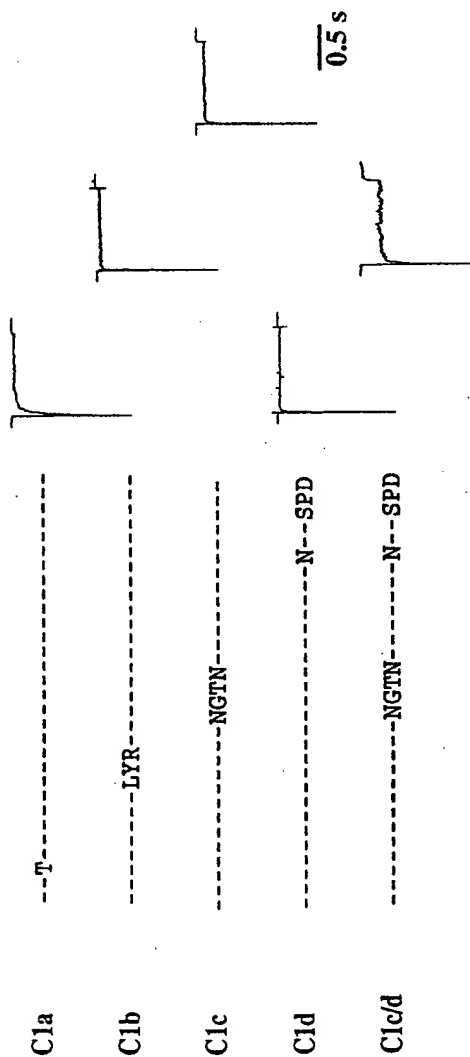


FIGURE 3B

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R3 501-APLTITLVREEVIDF-515

---A---Y---K---

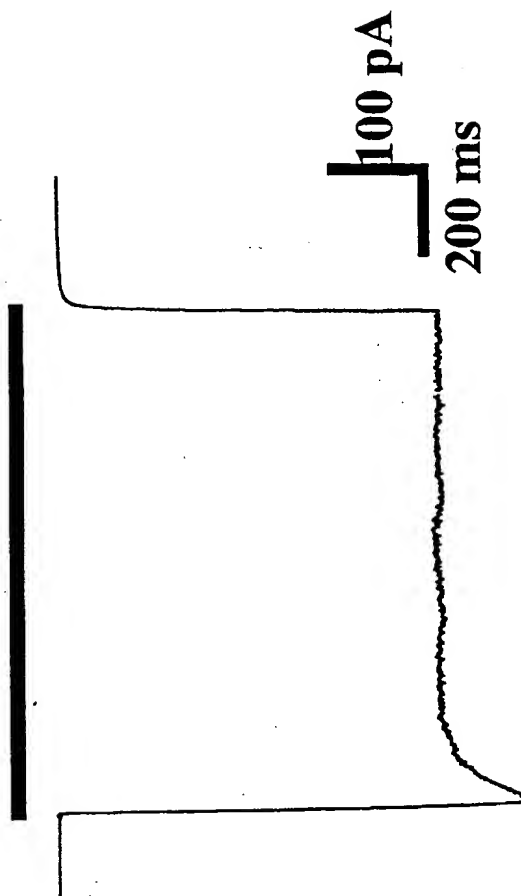


FIGURE 4A



Replacement Sheet

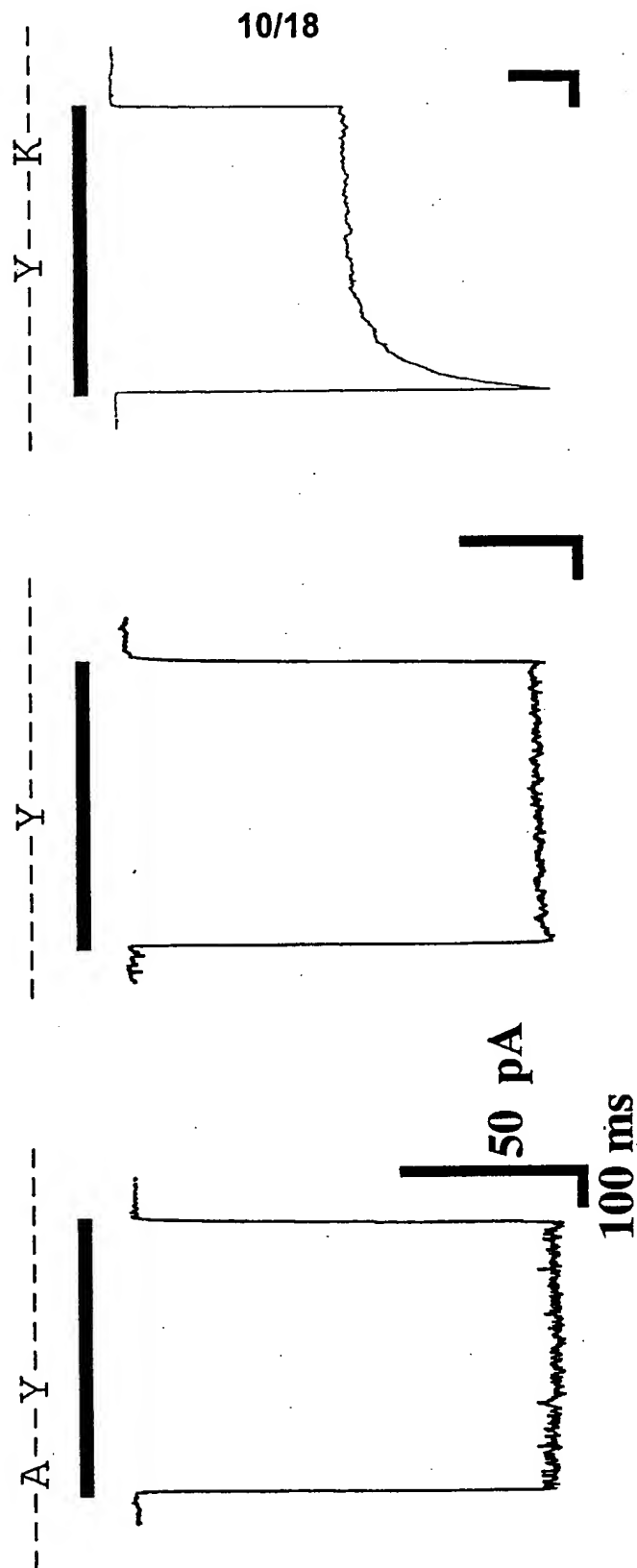


FIGURE 4B



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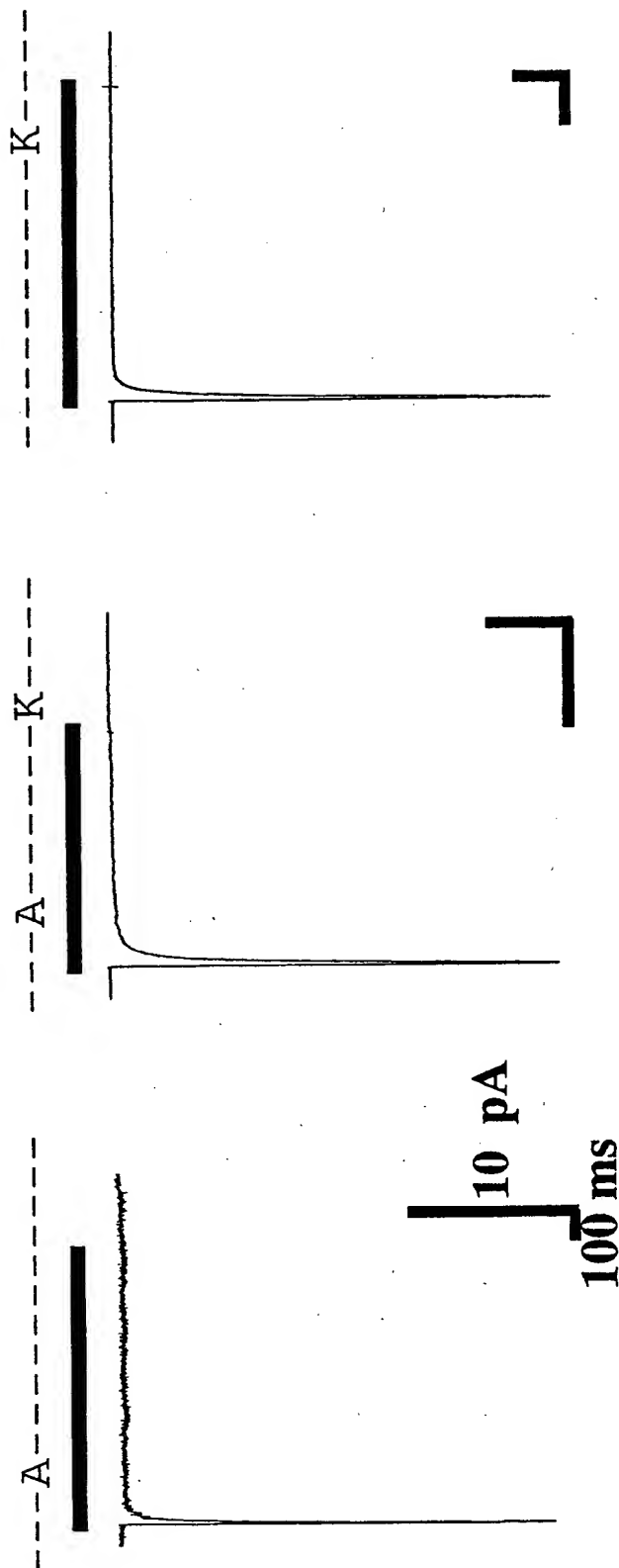


FIGURE 4C

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FIGURE 4D

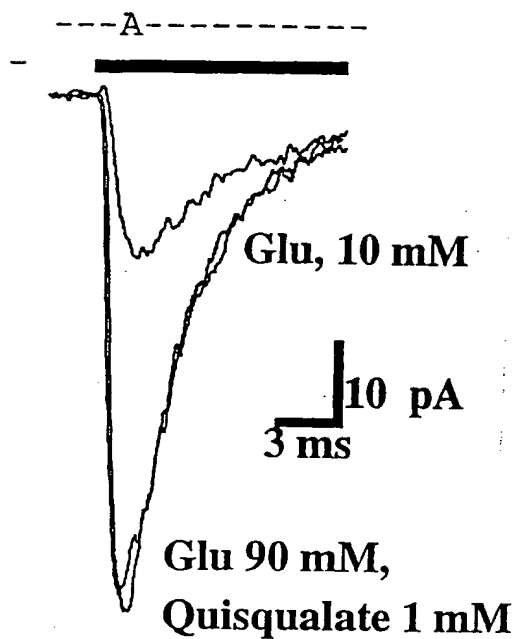


FIGURE 4E

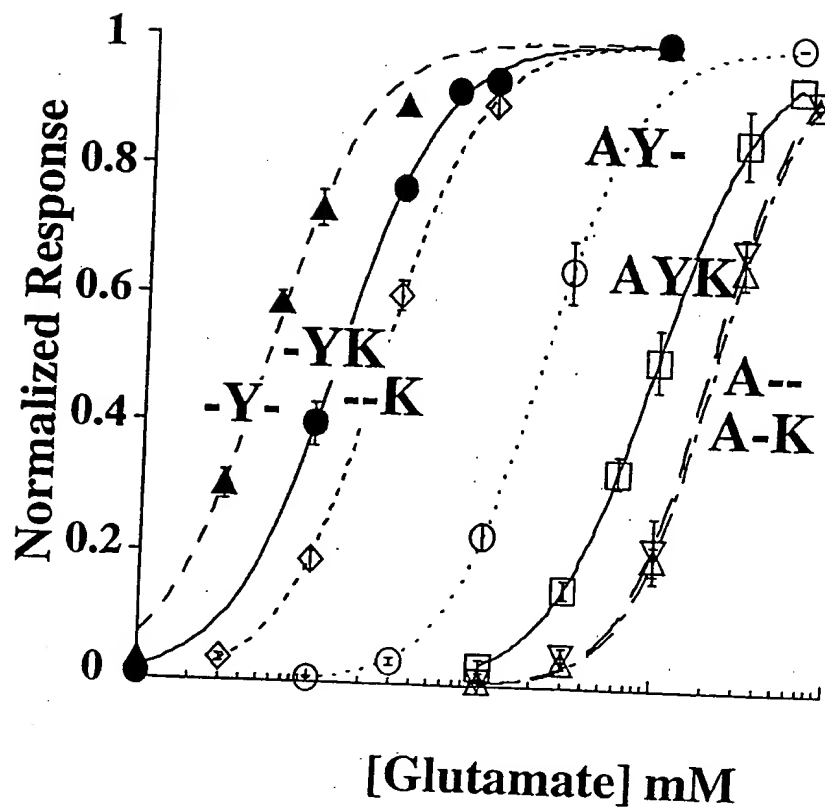




FIGURE 5A

R1 (L497Y)  
Glutamate, 10 mM

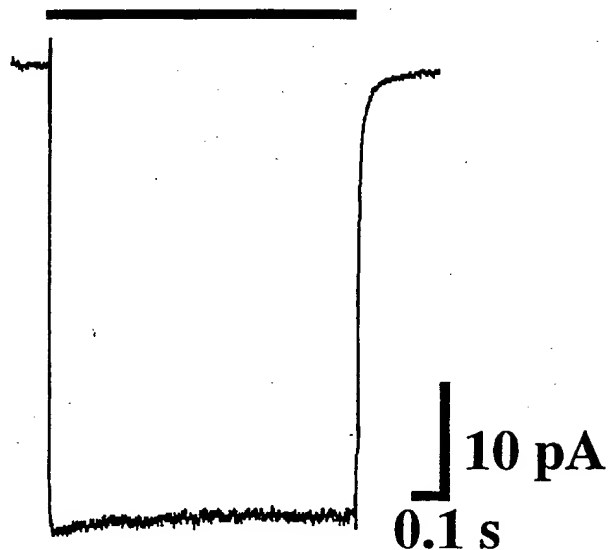
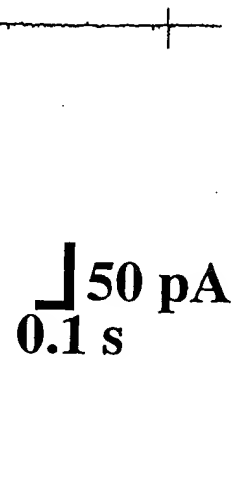


FIGURE 5B

GluR6 (Y521L)  
Glutamate, 10 mM





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R6TM1R3 (Y521L)

Glutamate, 10 mM

FIGURE 5C

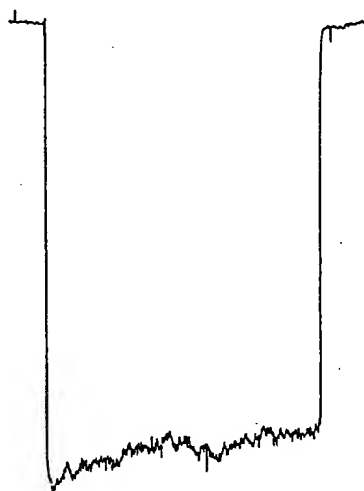


┌ 10 pA  
└ 0.1 s

R6TM1R3 (Y521L)

Glu + Cyclothiazide (100  $\mu$ M)

FIGURE 5D



┌ 10 pA  
└ 0.1 s

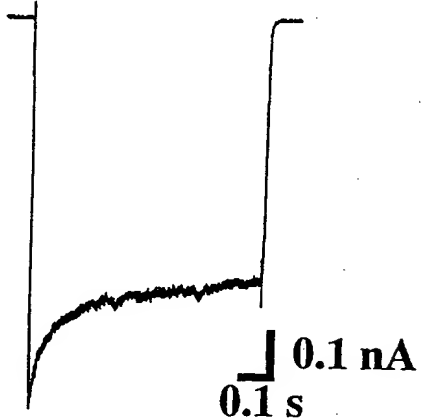


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**R3 (L507F)**

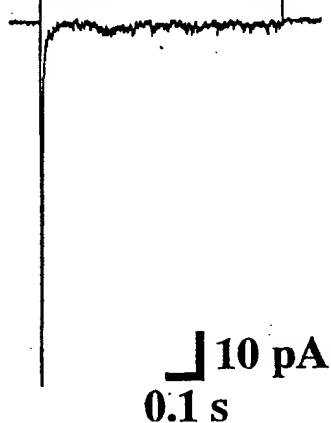
**Glu, 10 mM**



**FIGURE 6A**

**R3 (L507S)**

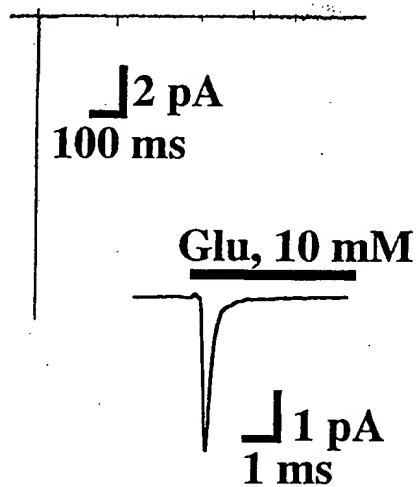
**Glu, 10 mM**



**FIGURE 6B**

**R3 (L507T)**

**Glu, 10 mM**



**FIGURE 6C**

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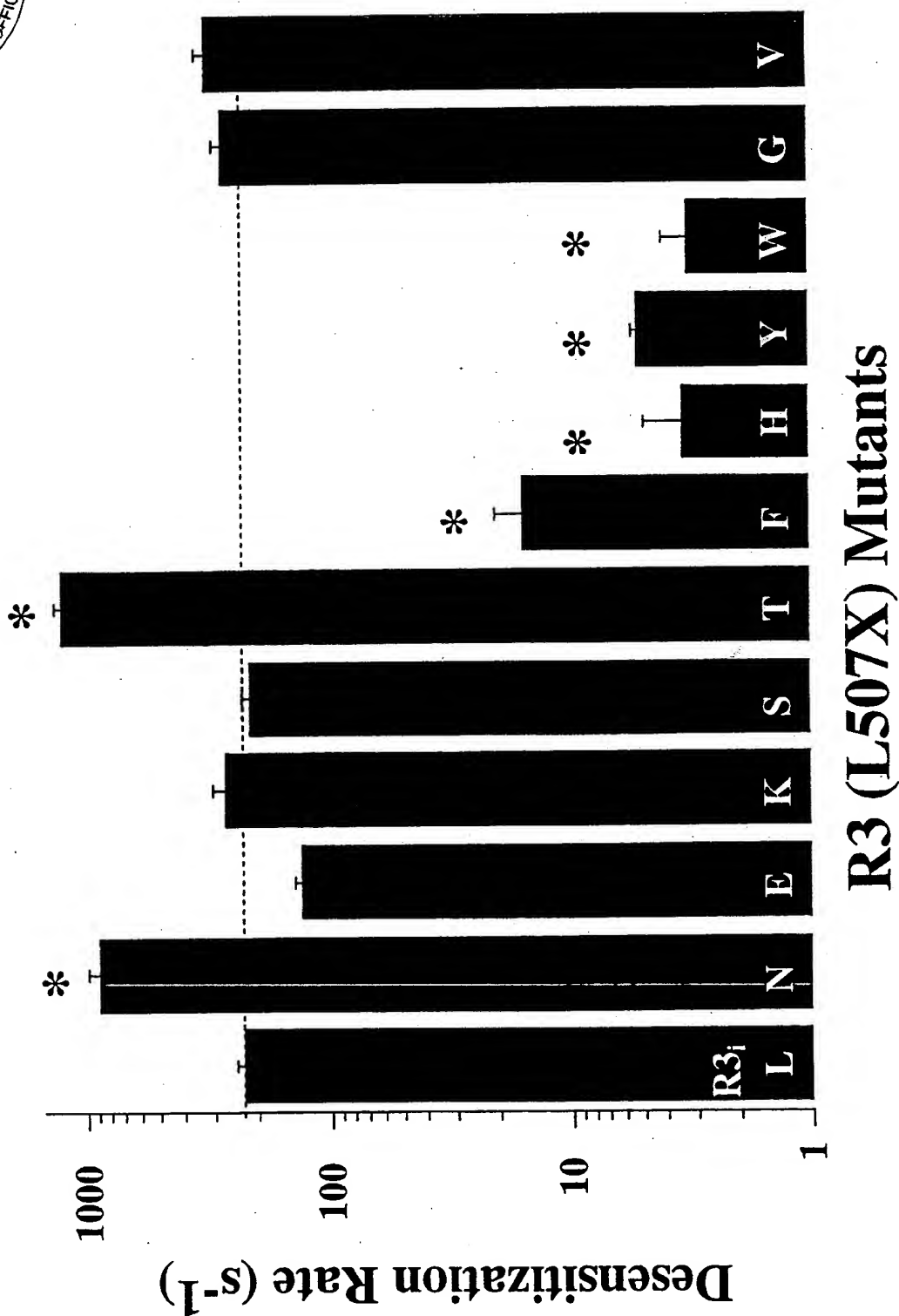


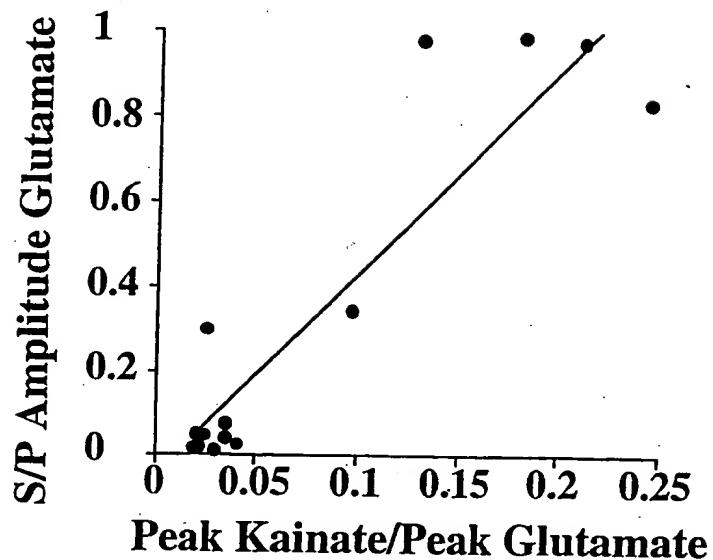
FIGURE 6D

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FIGURE 7A



R6TM1R3 (Y521L)

Kainate, 5 mM

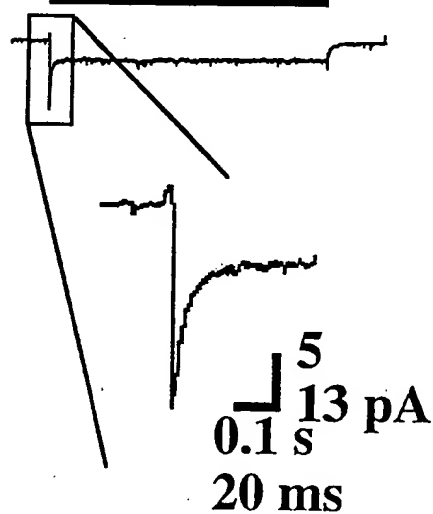


FIGURE 7B



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460	S	D	G	K	Y	G	A	R	D	P	D	T	K	A	W	N	G	M	V	G	E	L	V	Y	G	R	A	D	V	A	rat	GluR1
467	G	D	G	K	Y	G	A	R	D	A	D	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	K	A	D	I	A	rat	GluR2
470	G	D	G	K	Y	G	A	R	D	P	E	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	R	A	D	I	A	rat	GluR3
468	P	D	G	K	Y	G	A	R	D	A	D	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	K	A	E	I	A	rat	GluR4
460	S	D	G	K	Y	G	A	R	D	P	D	T	K	A	W	N	G	M	V	G	E	L	V	Y	G	R	A	D	V	A	hum	GluR1
467	G	D	G	K	Y	G	A	R	D	A	D	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	K	A	D	I	A	hum	GluR2
476	G	D	G	K	Y	G	A	R	D	P	E	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	R	A	D	I	A	hum	GluR3
468	P	D	G	K	Y	G	A	R	D	A	D	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	K	A	E	I	A	hum	GluR4
460	S	D	G	K	Y	G	A	R	D	P	D	T	K	A	W	N	G	M	V	G	E	L	V	Y	G	R	A	D	V	A	m	GluR1
467	G	D	G	K	Y	G	A	R	D	A	D	T	K	I	W	N	G	M	V	G	E	L	V	Y	G	K	A	D	I	A	m	GluR2
490	V	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	rat	GluR1
497	I	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	rat	GluR2
500	V	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	N	A	F	M	S	L	G	I	S	I	M	I	K	rat	GluR3
498	I	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	rat	GluR4
490	V	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	hum	GluR1
497	I	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	hum	GluR2
506	V	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	hum	GluR3
498	I	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	hum	GluR4
490	V	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	m	GluR1
497	I	A	P	L	T	I	T	L	V	R	E	E	V	I	D	F	S	K	P	F	M	S	L	G	I	S	I	M	I	K	m	GluR2

FIGURE 8